



Commonwealth Edison
Dresden Nuclear Power Station
R.R. #1
Morris, Illinois 60450
Telephone 815/942-2920

February 13, 1992

CWS LTR #92-080

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Licensee Event Report 92-003, Docket 050237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73(a)(2)(ii)(B).

L. J. Henner for 2/15/92

Charles W. Schroeder
Station Manager
Dresden Nuclear Power Station

CWS/cfq

Enclosure

cc: A. Bert Davis, Regional Administrator, Region III
NRC Resident Inspector's Office
File/NRC
File/Numerical

(ZDVR/475)

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PDR ADOCK 05000237
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Handwritten initials/signature

LICENSEE EVENT REPORT (LER)

Form Rev 2.0

Facility Name (1) Dresden Nuclear Power Station, Unit 2	Docket Number (2) 0 5 0 0 0 2 3 7	Page (3) 1 of 0 3
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Title (4) Postulated 2/3 Diesel Generator Cooling Water Pump Related Failure Due to Design Deficiency

Event Date (5)			LER Number (6)				Report Date (7)			Other Facilities Involved (8)	
Month	Day	Year	Year	Sequential Number	Revision Number	Month	Day	Year	Facility Names	Docket Number(s)	
1	21	1992	92	003	00	02	13	1992	Dresden Unit 3	0 5 0 0 0 2 4 9	

OPERATING MODE (9) N

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)

POWER LEVEL (10) 0 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
	<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
	<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> Other (Specify in Abstract below and in Text)
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
	<input type="checkbox"/> 20.405(a)(1)(iv)	<input checked="" type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
	<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

Name Ismael Rivera Jr., Technical Staff System Engineer	Ext. 2549	TELEPHONE NUMBER AREA CODE 8 1 5 9 4 2 - 2 9 2 0
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

Expected Submission Date (15)	Month Day Year
<input checked="" type="checkbox"/> Yes (If yes, complete EXPECTED SUBMISSION DATE)	X NO

ABSTRACT (Limit to 1400 spaces, i.e, approximately fifteen single-space typewritten lines) (16)

On January 21, 1992, with Unit 2 in cold shutdown and Unit 3 in a refuel outage, it was determined during an engineering review that a postulated flood in the Circulating Water intake structure resulting from a Circulating Water pump discharge pipe break could render the Unit 2/3 Diesel Generator Cooling Water Pump (DGCWP) inoperable, if flood damage were to occur to control circuitry contained in an unsealed power transfer switch junction box located below the design basis flood level. The root cause was attributed to a design deficiency within a 1986 modification installing the transfer switch. The safety significance is considered minimal because the sequence of events required for this event to occur is unique and extremely remote. Corrective actions included properly sealing the junction box and conduit involved, and identifying on the appropriate prints the locations and type of sealant installed.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Form Rev 2.0

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)						Page (3)		
		Year	///	Sequential Number	///	Revision Number				
Dresden Nuclear Power Station	0 5 0 0 0 2 3 7	9 2	-	0 0 3	-	0 0	0 3	OF	0 3	

TEXT Energy Industry Identification System (EIIS) codes are identified in the text as [XX]

D. SAFETY ANALYSIS OF EVENT:

The sequence of events postulated is unique and extremely remote. The events necessary to meet this postulated accident consists of a Circulating Water pump discharge pipe break in conjunction with either a LOOP or Loss of Coolant Accident (LOCA). Each Unit has its own Diesel Generator sized to carry the Division II Emergency Core Cooling System (Low Pressure Coolant Injection [BO] and Core Spray [BM]) power requirements. The Unit 2 and Unit 3 Diesel Generators and auxiliaries were not affected by this event. The Unit 2/3 Diesel Generator can supply the Unit 2 or Unit 3 Emergency Core Cooling System Division I loads. The Diesel Generator systems are also sized to support safe shutdown under LOOP or 10CFR50 Appendix R severe fire conditions utilizing one Diesel Generator.

E. CORRECTIVE ACTIONS:

The immediate corrective actions taken were to properly seal the involved junction box and conduit under Work Requests 06057 and 06058. The Unit 2/3 Diesel Generator was then declared operable on January 23, 1992 at 2015 hours. Drawing Change Request (DCR) D-92-017 was also initiated identifying the locations and types of seals installed.

The Nuclear Engineering Department (NED), completed a walkdown of the cribhouse, and issued their report, "Service Water Design Review" in May of 1991. At that time it was determined that the DGCWP and its components comprise the only safety related system in the cribhouse. Corporate NED procedure ENC-QE-06.1, 10CFR50.59 Safety Evaluation, now takes into account potential flooding concerns during the initial safety evaluation conducted for all safety related modifications. This will prevent a recurrence of a condition of this type.

F. PREVIOUS OCCURENCES:

DVR Number Title

12-2/3-89-154 Postulated LPCI Swing Bus Loss Resulting From Diesel Generator Voltage Failure Design Deficiency

A review of INPO Operating Experience report OE 3573 concluded that an original construction design deficiency existed. A modification was designed and installed providing the LPCI Swing Bus with enhanced protective relaying.

G. COMPONENT FAILURE DATA:

This event did not involve actual component failure; therefore, this section is not applicable.